D**og**ket No. 108172-00070

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

MAR	0	6 2002	3	Dec	laration F	or IJ.S. Pa	tent Anr	lication	3 3 8 80	
		As a	low name	a inventor. I hereb	ov declare that:			7110411011		
Medical Science, post office address and citizenship are as stated below my name. **TRADE-Science** I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if parellisted below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **Inventorial** Inventorial** Inventor										
G	IRA	are lis	eve I am the	original, first and	l sole inventor (if onl	y one name is listed	below) or an origi	nal, first and joint inventor (i	f plural name	
		(Inser	t Title) P	RODUCTION OF	F NOVEL NEWOAS	ma for which a patent	. is sought on the i	nvention e ntitled DM cDNAs AND IMPROVEI		
		(,	TTENUATED N	EWCASTLE DISEA	SE VACCINES	19 21 KAIN2 FKC	JM CDNAS AND IMPROVEI	D LIVE	
		the sp	ecification of	of which is attache	d hereto unless the fo	ollowing box is check	ed:			
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		×	was file Number			, , , , , , , , , , , , , , , , , , , 	As PCT Internati	ional Application		
		and/o		· · · · · · · · · · · · · · · · · · ·		d was amended on			··	
		and o	Number			l was amended on	As U.S. Patent A	pplication		
									· ·	
		I herel	y state that	I have reviewed a	and understand the co	ntents of the above-10	dentified specifica	tion, including the claim(s), a	is amended by	
									o amenaea o	
-					nformation which is nefits under 35 U.S.				, ,	
		certific	cate, or §365	5(a) of any PCT L	nternational application	on which designated	at least one countr	agn application(s) for patent y other than the United States	or inventor's	
							s certificate or PC	y other than the United States T International Application h	aving a filing	
	•	uate of	noie mai oi	the application(s)	for which priority is	claimed:				
								Priority Claimed		
	lamin and a	(List	prior (1	Number)	(Country)	(Day/	Month/Year Filed	Yes No)	
		forei appl	gn ications) —		((Duji	worldb rear rifed	☐ Yes ☐ No		
	1,5		(1	Number)	(Country)	(Day/	Month/Year Filed		,	
	. I'i	- -						Yes □ No)	
			1)	Number)	(Country)	(Day/	Month/Year Filed)		
	Ţ		v claim the	benefit under 35 I	J.S.C. §119(e) of any	United States provise	iomol omuliardia (N. 1. 1. 1		
	11		y		5.5.6. 3117(c) of any	Officed States provis	ionar application(s) listed below.		
				60/132,597		May 5, 1				
		-		(Application 60/171,072	Number)	(Filing D	ate)			
	111			(Application	Number)		er 16, 1999			
	CONTRACT OF STREET				,	` •	,			
See attached list for additional prior foreign or provisional applications						ications.				
	Ę.	I hereb	v claim the	benefit under 35	HSC 8120 of any	United States annlis	ntinu(-) 92654) (DOM -		
		designa	ting the Un	ited States of An	nerica listed below a	nd, insofar as the sul	auon(s) or \$365(c	c) of any PCT International a	ipplication(s)	
		disclose	d in the pri	ior application(s)	(U.S. or PCT) in the	manner provided by	the first paragrar	on of the claims of this appli oh of 35, U.S.C. \$112, I acknowledge	owledge the	
		of the n	tior applicat	ormation which is	material to patentable all or PCT Internation	lity as defined in 37 (J.F.R. §1.56 which	oh of 35, U.S.C. §112, I ackn h became available between t	he filing date	
		-1 p	approa	aon and the nation	iai or i e i internation	rar ming date of this	appucation.		-	
		(List prior								
		Applications or PCT International		(Application S	Serial No.)	(Filing Date)	(St	atus) (patented, pending, abar	ndoned)	
		application		(Application S	Serial No)	(Filing Date)			,	
	designating the U					(1 ming Date)	(St	(Status) (patented, pending, abandoned)		

And I hereby appoint the firm of Arent Fox, Customer Number 004372 including as principal attorneys: Robert B. Murray, Reg. No. 22,980; Charles M. Marmelstein, Reg. No. 25,895; George E. Oram, Jr., Reg. No. 27,931; Douglas H. Goldhush, Reg. No. 33,125; Richard J. Berman, Reg. No. 39,107; Murat Ozgu, Reg. No. 44,275; Robert K. Carpenter, Reg. No. 34,794; Gregory B. Kang, Reg. No. 45,273; Rustan Hill, Reg. No. 37,351; Kevin Turner, Reg. No. 43,437; Rhonda L. Barton, Reg. No. 47,271; Hans J. Crosby, Reg. No. 44,634, David D. Dzara, Reg. No. 47,543, Lynne D. Anderson, Reg. No. 46,412; Laurence J. Edson, Reg. No. 44,666, Dinnatia J. Doster, Reg. No. 45,268, Michael A. Steinberg, Reg. No. 43,160 and Lynn A. Bristol, Reg. No. 48,898.

Please direct all communications to the following address:

Customer No. 004372 ARENT FOX KINTNER PLOTKIN & KAHN, PLLC 1050 Connecticut Avenue, N.W., Suite 400 Washington, D.C. 20036-5339 Telephone No. (202) 857-6000, Facsimile No. (202) 638-4810 The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be take in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Siba K. SAMAL		
Inventor's signature		
Residence 3508 Marlborough Way, College Park, Maryland 20740	Date	
Citizenship US		
Post Office Address Same as above		
Full name of second inventor Peter L COLLINS 2-00		
Inventor's signature PET M	2/03/02 20895 Date plc 2/03/	
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1 ost Office Address Same as above		
Full name of third inventor		
Inventor's signature		
Residence	Date	
Residence		
Post Office Address		
Full name of forth inventor		
Inventor's signature		
Residence Citizenship	Date	
Post Office Address		
Full name of fifth inventor		
Inventor's signature		
Residence	Date	
Cidzelishp		
Post Office Address		
Full name of sixth inventor		
nventor's signature		
Residence	Date	
Citizenship	· · · · · · · · · · · · · · · · · · ·	
Post Office Address		

Docket No. 108172-000

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

or U.S. Patent Application

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below my name.
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names

are listed (Insert Ti	itle) PR	the subject matter whice on the subject of the contract of the	EL NEWCASTLE	E DISEASE VIRU	t is sought on the invent JS STRAINS FROM cl	tion entitled DNAs AND IMPROVED LIVE	
the specif		which is attached heret			ed:		
×	Number PCT/US00/06700 and was			as amended on		International Application	
and/or	was filed Number	on October 31, 200 09/926, 431		as amended on	As U.S. Patent Applie	cation	
any amen I acknow I hereby certificate and have	idment refe ledge the d claim fore e, or §365(also identi	erred to above. luty to disclose informa eign priority benefits u a) of any PCT Internati	tion which is mat inder 35 U.S.C. (onal application v application for p	erial to patentabil §119(a)-(d) or §3 which designated patent or inventor	ity as defined in 37 C.F 365(b) of any foreign at least one country oth	including the claim(s), as amended by C.R. \$1.56. application(s) for patent or inventor's ter than the United States, listed below ternational Application having a filing Priority Claimed	
OT that must	- OI	1			D.C. (1.07 TH. 1)	Yes No	
(List pri	(* '	umber)	(Country)	(Day	/Month/Year Filed)	☐ Yes ☐ No	
applicat	(N	umber)	(Country)	(Day	/Month/Year Filed)	<u> </u>	
	(N	umber)	(Country)	(Day	/Month/Year Filed)	Yes No	
I hereby o	claim the b	60/132,597 (Application Numb 60/171,072 (Application Numb	per)	May 5, (Filing) Decemb	Date) ver 16, 1999 Date)		
designation disclosed duty to di	ng the Uni in the pric sclose info	benefit under 35 U.S.C ted States of America or application(s) (U.S.	2. §120 of any Un listed below and, or PCT) in the m ial to patentability	nited States appli insofar as the stanner provided by y as defined in 37	object matter of each on the first paragraph on C.F.R. §1.56 which be	f any PCT International application(s) of the claims of this application is not f 35, U.S.C. §112, I acknowledge the came available between the filing date	
(List prior U Applications PCT Interna	or	(Application Serial l	No.)	(Filing Date)	(Status	s) (patented, pending, abandoned)	
applications designating		(Application Serial No.)		(Filing Date)	(Status	(Status) (patented, pending, abandoned)	
22,980; C J. Berman Rustan H David D. 45,268, M	Charles M. In, Reg. No Ill, Reg. No Dzara, Reg Viichael A.	Marmelstein, Reg. No 39,107; Murat Ozgu, fo. 37,351; Kevin Turr g. No. 47,543, Lynne D. Steinberg, Reg. No. 43	25,895; George F Reg. No. 44,275 Ier, Reg. No. 43, Anderson, Reg. 160 and Lynn A.	E. Oram, Jr., Reg.; Robert K. Carp 437; Rhonda L. I No. 46,412; Lau Bristol, Reg. No.	No. 27,931; Douglas Henter, Reg. No. 34,794 Barton, Reg. No. 47,27 Pence J. Edson, Reg. No. 48,898.	orneys: Robert B. Murray, Reg. No. I. Goldhush, Reg. No. 33,125; Richard Gregory B. Kang, Reg. No. 45,273, 71; Hans J. Crosby, Reg. No. 44,634, p. 44,666, Dinnatia J. Doster, Reg. No.	
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Full name of second inventor Peter L COLLINS	
Inventor's signature	D./
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Inventor's signature	D.A.
ResidenceCitizenship	Date
Post Office Address	
Full name of forth inventor	
Inventor's signature	
Residence	Date
Citizenship	
Post Office Address	
Full name of fifth inventor	
Inventor's signature	Doto
Residence	Date
Post Office Address	
Full name of sixth inventor	
nventor's signature	
Residence	Date
Citizenship	
Post Office Address	